

The Army SMART Execution Plan



NDIA 3rd Simulation Based Acquisition Conference

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SMART Definition

SMART is a process in which we capitalize on Modeling and Simulation (M&S) technology to address the issue of system development and life-cycle costs through the combined efforts of the requirements, training and acquisition communities.





“Be a world leader in Modeling and Simulation to continuously improve Army effectiveness through a disciplined collaborative environment in partnership with industry, government, and academia.”

3 November 1999

Larry R. Ellis
Lieutenant General, GS
Deputy Chief of Staff
for Operations and Plans

Paul J. Kern
Lieutenant General, GS
Military Deputy to the
Assistant Secretary of the
Army (Acquisition, Logistics
and Technology)

Walter W. Hollis
Deputy Under Secretary
of the Army
(Operations Research)

SMART Concept



Flagship Programs



- **Apache** poised to re-assess basic load, capitalize on product improvements to re-engineer logistic support



- **CCTT** can be Employed to Explore Doctrine and TTP for Future Systems to Influence Final Design

- **Crusader** program operates within an Integrated Digital Environment that links the Program Management Office, Contractor, Research Center, assorted test ranges, and other activities



- **Future Scout Cavalry System** ideally poised to benefit from M&S and Systems Engineering

FCS Program Mission

- **To develop concepts for, model, and prototype a rapidly deployable lightweight, Multi-Mission Combat System to be fielded at the end of this decade!**
- **To support the Army's goal to field an affordable system capable of overwhelming lethality, strategic deployability, self-sustainment, and high survivability**
- **To be a multi-functional, multi-mission re-configurable system of systems to maximize:**
 - **Joint operability**
 - **Strategic transportability, and deployability**
- **Joint DARPA / Army program that will be a SMART managed program**

SMART Collaboration With Entertainment Industry/Academia



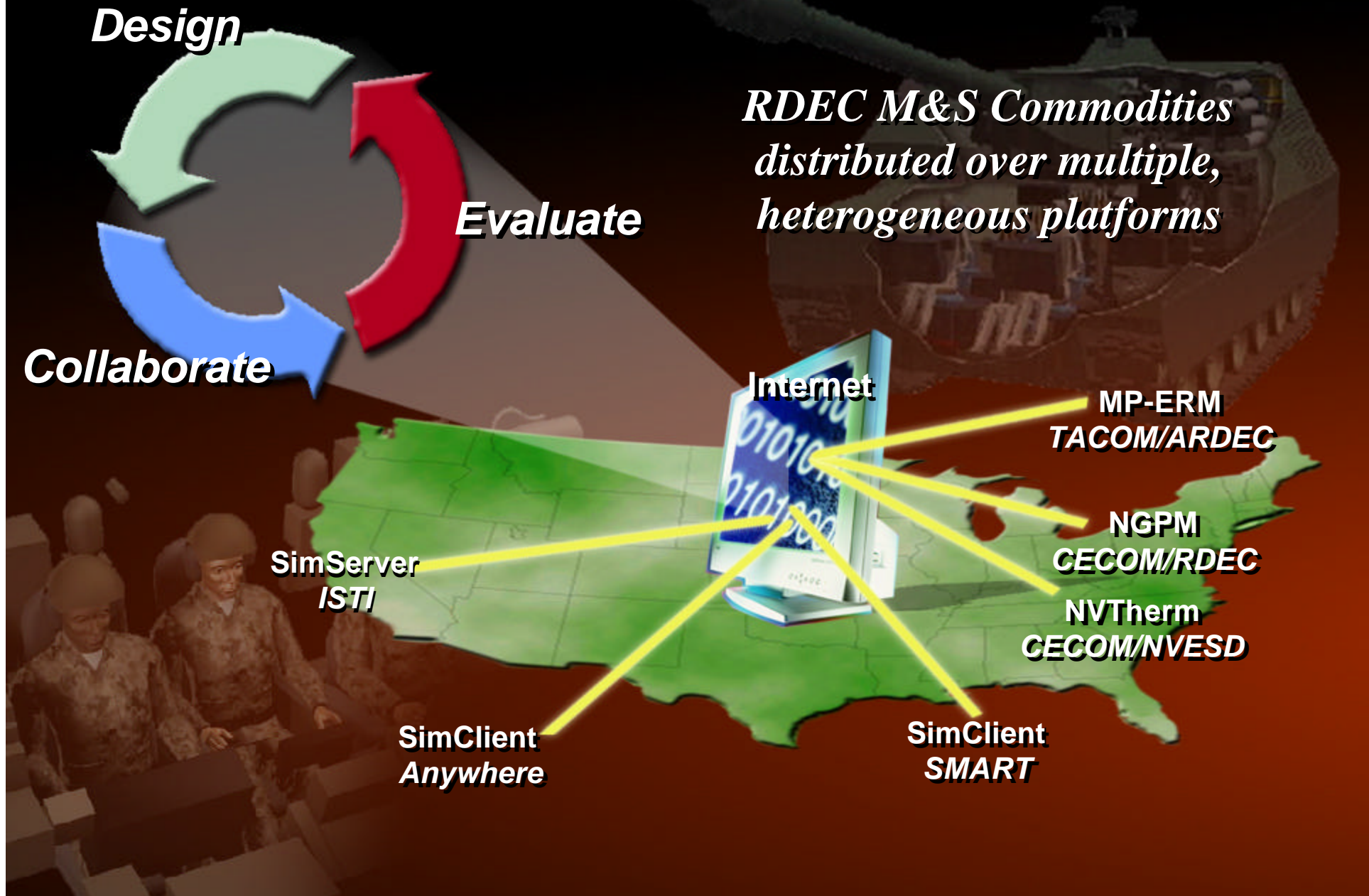
- **Immersive Environments**
- **Urban Environment Simulation**
- **Stability and Support Operations Simulation**

AMC RDEC Federation

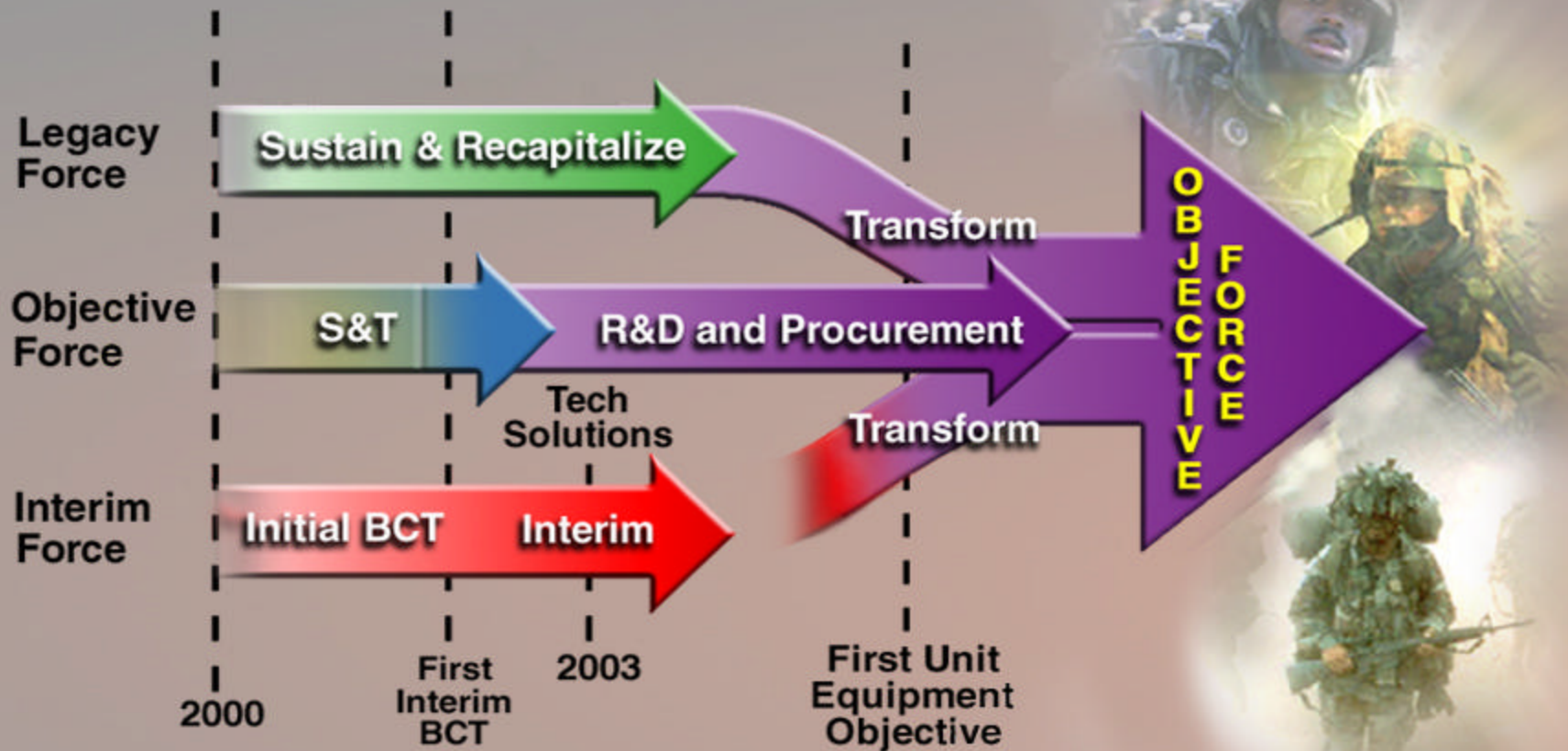


AMC-wide Distributed M&S Collaborative Environment

M&S Integration and Interoperation Across RDECs



The Army Transformation



*... Responsive, Deployable, Agile, Versatile,
Lethal, Survivable, Sustainable.*

Modeling and Simulation Are Essential to Field the Objective Force In This Decade

2008



- Design Faster
- Collaborate Easier
- Explore Alternative Designs

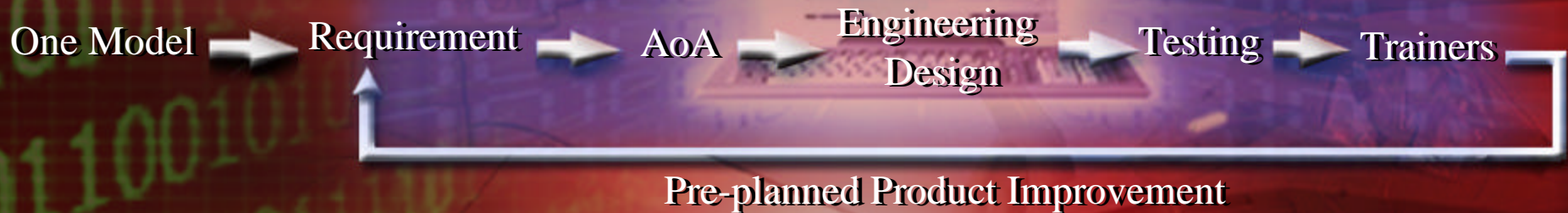
We Must Change Our Culture

Current Culture



New Culture

Virtual Environment



Collaborative Environment

Intelligence

C4I Community

Soldiers

Testers

Engineers

Logisticians

Training Devices

Requirements



Rapid, Cost-Effective Development

The Way Ahead

SMART is the enabler to allow the Army to complete the Transformation process within the established timelines. Coordination has been conducted to incorporate 45 of the 51 tasks in the **SMART Execution Plan** into the Transformation Campaign Plan.



Army M&S Management Structure

CO-CHAIR BY:
VCSA/A&E

CHAIR BY: DUSA(OR)
VICE CHAIRS: MD,ASA(RDA)/DCSOPS

ARMY M&S
GENERAL OFFICERS STEERING COMMITTEE
(AMS GOSC)

ARMY M&S
EXECUTIVE COUNCIL
(AMSEC)

ARMY MODEL and SIMULATION
OFFICE
AMSO (DAMO-ZS)

- Meets as required
- Provides strategic vision and program validation/approval

- Provides overall management of M&S and resolves issues
- Meets Semi-annually or as required

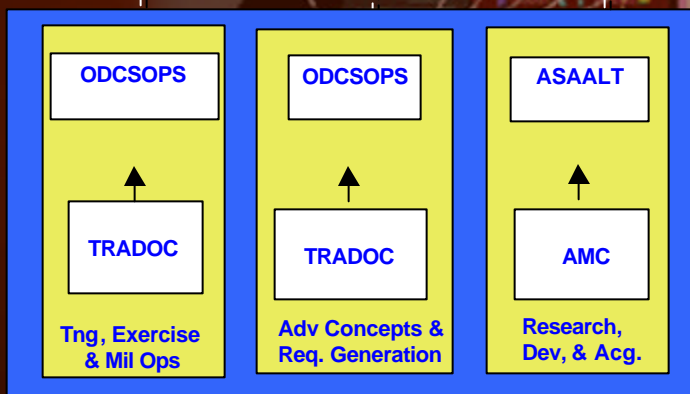
- Coordinate Policy
- Provide Visibility
- DA Integrate Requirements for Funding
- DA Provide POM Guidance
- DA Resource Requirements

- Provide management review for M&S development and infrastructure
- Meet semi-annually prior to AMSEC
- TRADOC Approves Requirements

- Develop and maintain supporting plans for domains to include:
- Management Plans & Regulations
- Domain Investment Plans
- Requirements Generation and Review

DOMAIN MANAGER

DOMAIN AGENT



Army M&S Domains

Advanced Concepts & Requirements

Activities

- Force Design
- Force Development
- Operational Requirements
- Warfighting Experiments

Simulations / Simulators

- Reconfigurable Simulators
- Constructive Models

Research, Development, & Acquisition

Training, Exercises, & Military Operations

Activities

- Individual & Collective Trng
- Joint / Combined Exercises
- Mission Rehearsal
- Operational Planning

Simulations / Simulators

- System Simulators
- Training Simulations

AMSO

Activities

- Basic/Applied Research
- Weapon System Development
- Materiel Acquisition
- Test and Evaluation

Simulations / Simulators

- System Prototypes,
- Engineering / Physical Models

The Way Ahead

The **SMART Execution Plan** will serve as the vehicle to guide the institutionalization of SMART throughout the Army.



- Approved by the Army Model and Simulation Executive Council co-chairs on 6 November 2000.
- Provides justification for a SMART budget.

SMART 2002 Conference



Location: Salt Lake City, Utah

Date: 16-19 April 2002

Purpose: Promote the SMART concept, educate the Army on SMART applications and successes, and demonstrate the technology.

Audience: Acquisition, Requirements and Operational Communities, and Industry

Will feature tutorials, speakers, panels, and SMART Exhibits

<http://www.amso.army/smart>

